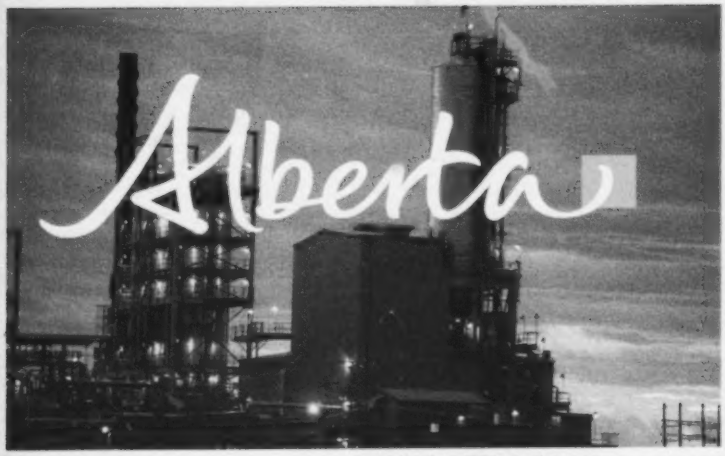

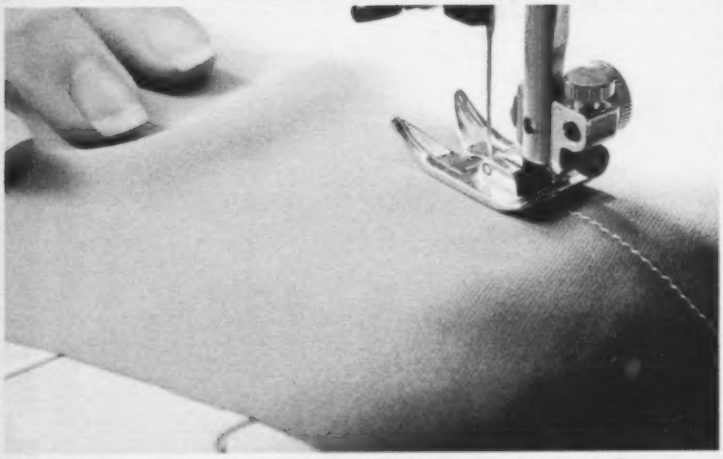

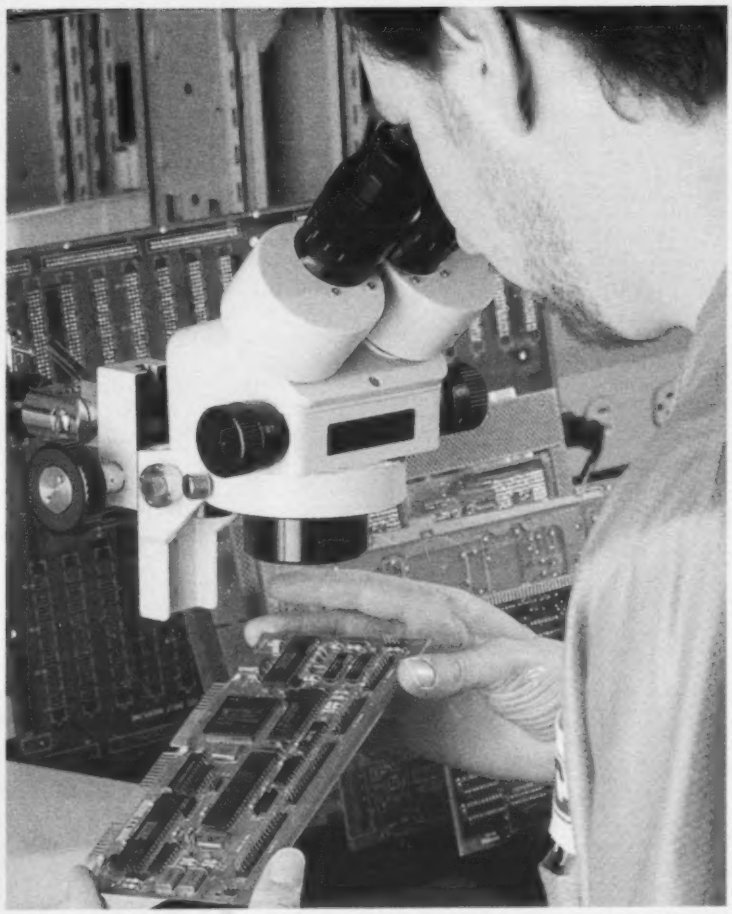

INDUSTRY PROFILES

Manufacturing Industry

July 2010

Government of Alberta
Employment and Immigration

Overview:

The Manufacturing industry[1] in Alberta includes establishments involved in:

- food manufacturing;
- beverage and tobacco product manufacturing;
- textile, textile product mills and clothing manufacturing;
- petroleum and coal products manufacturing;
- chemical, plastics and rubber manufacturing;
- computer and electronic products manufacturing; and
- other manufacturing.

Section A: Business Environment
1. 2009 Employment and Unemployment Numbers and Rates
2. Industry Growth
3. Size of Businesses in Alberta and the Industry
Section B: Human Resources Profile
1. Occupational Information
2. Demographics: Age and Gender
3. Wages
Section C: Additional Information
1. Links to Selected Industry Associations
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[1] North American Industry Classification System (NAICS) groups 311 and 339

Section A: Business Environment

1. 2009 Employment and Unemployment Numbers and Rates:

	Alberta	Manufacturing Industry
Number of employed	1,988,100	123,100
Percent employed in the industry		6.2%
Number of unemployed	139,700	11,000
Unemployment rate	6.6%	8.2%

Data Source: Labour Force Historical Review 2009, Statistics Canada

For more information on employment numbers or for a historical comparison, please go to the Labour Force Statistics[2] or Statistics Canada[3] websites.

2. Industry Growth:

- Employment in the Manufacturing industry is expected to increase by an average of 3.9% annually from 2010 to 2013.
- Approximately 19,100 jobs will be created from 2010 to 2013.
- Employment is expected to increase to 142,200 by 2013, accounting for 10.8% of all new jobs created in Alberta in that period.

For more information, see the Alberta Modified Canadian Occupational Projection System (COPS) Outlook 2009 – 2013, Industry Employment Outlook[4] online and the Alberta Learning Information Service (ALIS)[5] website's industry descriptions.

[2] See http://www.employment.alberta.ca/BI/67.html
[3] See http://www.statcan.gc.ca
[4] See http://www.employment.alberta.ca/documents/LMI/LMI-LMF_2009-13_cops.pdf
[5] See http://www.alis.alberta.ca

Trends and Outlook

According to Statistics Canada's National Economic Accounts, the Manufacturing industry accounted for 7.8% of Alberta's Gross Domestic Product in 2009, down from 8.9% in 1999. Its share of Alberta's total employment decreased from 8.6% in 1999 to 6.2% in 2009.

Employment in 2009 was 14.6% lower than it was in 2008. Over the last ten years, employment increased from 133,500 people in 1999 to 144,100 people in 2008 before decreasing to 123,100 people in 2009. It is expected that employment will resume its upward trend as the economy recovers from the recession.

According to the *Alberta Occupational Demand Outlook: 2009-2013*, the following occupations within the Manufacturing industry are expected to experience growth in demand for labour during the projection period: Machine operators and related workers in chemical, plastic and rubber processing; Central control and process operators in manufacturing and processing; Supervisors in assembly and fabrication; and Supervisors in processing occupations.

3. Size of Businesses in Alberta and the Industry:

Establishment Size	Alberta Businesses		Manufacturing Businesses	
	Number of Employees	%	Number of Employees	%
Less than 20 employees	561,300	34.3%	27,500	24.0%
20 to 99 employees	582,500	35.6%	42,000	36.6%
100 to 500 employees	298,700	18.3%	31,100	27.1%
Over 500 employees	194,000	11.9%	14,000	12.2%

Data Source: Labour Force Historical Review 2009, Statistics Canada

* Percentages may not add up to 100 due to rounding.

Note: Statistics Canada's survey methodology for determining establishment size differs from the one it uses in the Labour Force Survey to determine total employment. As a result, the total number of employees by establishment size will not be the same as total employment in the industry, except by coincidence.

Section B: Human Resources Profile

1. Occupational Information:

Some examples of occupations that can be found in the Manufacturing industry include:

- meat cutter;
- machinist;
- manufacturing engineer;
- sawmill machine operator; and
- instrument technician.

For a complete listing of all occupations related to this industry as well as detailed information on education and skill requirements, visit the Alberta Occupational Profiles[6] website.

2. Demographics: Age and Gender:

According to the Labour Force Survey, the gender breakdown in Alberta's manufacturing industry is as follows:

- women employed: 28,200 people, or 22.9%
- men employed: 94,900 people, or 77.1%

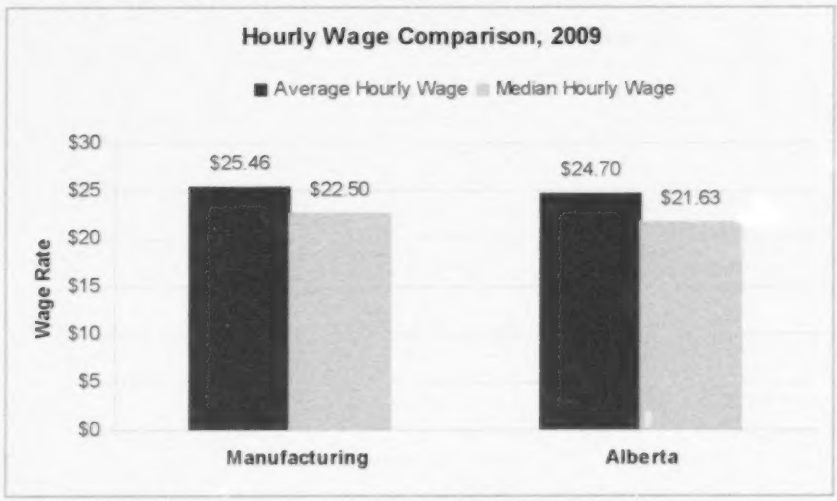
In Alberta, women accounted for 45.4% and men made up 54.6% of total employment.

Age Characteristics	Alberta Employees		Manufacturing Employees	
	Number	%	Number	%
15-24 years	316,400	15.9%	13,700	11.1%
25-54 years	1,356,400	68.2%	91,800	74.6%
55 years and over	315,300	15.9%	17,600	14.3%

Data Source: Labour Force Historical Review 2009, Statistics Canada

[6] See http://www.alis.alberta.ca/occinfo

3. Wages:



Data Source: Labour Force Historical Review 2009, Statistics Canada
Note: The average hourly wage is obtained by dividing the sum of the wages of all the employees by the total number of employees. The median hourly wage is that wage below which half the employees earn and above which half the employees earn.

Wage and Salary Information for Selected Occupations

Occupation	Average Hourly Wage			Average Annual Salary
	Starting Average	Overall Average	Top Average	
Industrial engineer	$ 36.69	$ 41.84	$ 51.13	$ 86,938
Manufacturing managers	$ 31.60	$ 40.32	$ 46.59	$ 84,807
Plastic products assemblers, finishers and inspectors	$ 10.50	$ 15.28	$ 19.51	$ 31,734
Industrial instrument technicians and mechanics	$ 21.19	$ 29.15	$ 41.49	$ 60,583
Machinist	$ 20.62	$ 25.92	$ 31.88	$ 54,194

Data Source: 2009 Alberta Wage and Salary Survey

For more information on wages, refer to the WAGEinfo[7] webpage. For job descriptions, duties, required skills and education for specific occupations in the Manufacturing industry, visit the ALIS[8] website.

[7] See http://www.alis.alberta.ca/wageinfo
[8] See http://www.alis.alberta.ca

Section C: Additional Information

1. Links to Selected Industry Associations:

- Alberta Food Processors Association
  (http://www.afpa.com)
- Brewers Association of Canada
  (http://www.brewers.ca)
- Food Processors of Canada
  (http://foodnet.fic.ca)
- Canadian Poultry and Egg Processors Council
  (http://www.cpepc.ca)
- Alberta Forest Products Association
  (http://albertaforestproducts.ca)
- Canadian Plastics Industry Association
  (http://www.plastics.ca)
- Canadian Chemical Producers Association
  (http://www.ccpa.ca)
- Canadian Petroleum Products Institute
  (http://www.cppi.ca)
- Canadian Machinery and Metal Working Magazine
  (http://www.canadianmetalworking.com)
- Canadian Manufacturers and Exporters
  (http://www.cme-mec.ca)

2. Link to Government Library Database:

http://www.servicelink.gov.ab.ca/libraries/workplace